

Tucker

WIRELINE SERVICES

DUAL INDUCTION RESISTIVITY LOG

Company RUNNING FOXES PETROLEUM
Well WUNDERLY 11-36D-1
Field DEVON
County BOURBON
State KANSAS
Country USA
API No. 15-011-23814

File No : 55540
Company : RUNNING FOXES PETROLEUM INC.
Well : WUNDERLY 11-36D-1
Field : DEVON
County : BOURBON
State : KANSAS
Country : USA
API No : 15-011-23814

Location :
1800' FSL & 2460' FWL
NE SE NE SW

LSD : Sect : 36 Twp : 24S Rge : 23E

Permanent Datum:	GL	Elevations:	KB	0.00	Ft	GRT	PIT
Drilling Measured From:	GL	DF	0.00	Ft	CNT		
Log Measured From:	GL	GL	868.00	Ft	LDT		
Above Permanent Datum:	0.00	Ft					
Date	Aug 15 2011						
Run Number	1						
Depth--Driller	562.0 Ft						
Depth--Logger	560.0 Ft						
First Reading	560.0 Ft						
Last Reading	20.0 Ft						
Casing--Driller	20.0 Ft						
Casing--Logger	20.0 Ft						
Bit Size	6.750 In						
Casing Size	8.625 In						
Hole Fluid Type	FRESH / NATIVE						
Density	0.0 LBS/GAL						
Fluid Loss	0.0 CC						
PH/Viscosity	0.0 SEC						
Sample Source	MEASURED						
RM@Measured Temp.	4.000 @ 80 F						
RMF@Measured Temp	3.400 @ 80 F						
RMC@Measured Temp.	4.600 @ 80 F						
Source RMF/RMC	CALCULATED/CALCULATED						
RM@BHT	4.000 @ 80 F						
Time Circulation Stopped							
Max Recorded Temp.	80 F						
Equipment/Base	TRK123 TULSA						
Recorded By	T. MONTGOMERY						
Witnessed By	A. GREENE						

The customer is hereby warned that by providing the log data herein, T. W. S. does not agree to provide any interpretation of log data, conversion of log data to physical rock parameters or recommendations. T. W. S. does not guarantee or warrant either expressly or impliedly, the accuracy of any interpretation of log data, conversion of log data to physical rock parameters or recommendations which may be given by T. W. S. personnel. Any interpretation, conversion or recommendation is not part of the consideration for the agreement between the parties and is not part of any part of the charge by T. W. S. for its services. Any user of the log data is warned that said user is not entitled to rely on interpretations, conversions or recommendations as aforesaid.

Bitsize Intervals		Casing Strings		
Size (In)	Bottom (Ft)	Size (In)	Weight (Lbs)	Bottom (Ft)
6.750	572.00	8.625	24.00	20.00

Run Number	1		
Date	Aug 15 2011		
Date/Time On Bottom	Aug 15 2011 12:30		
Depth to Fluid	0.0 Ft		
Salinity	0.000 PPM		
RMF@BHT	3.400 @ 80 F		
RMC@BHT	4.600 @ 80 F		

Run Number 1

Comments

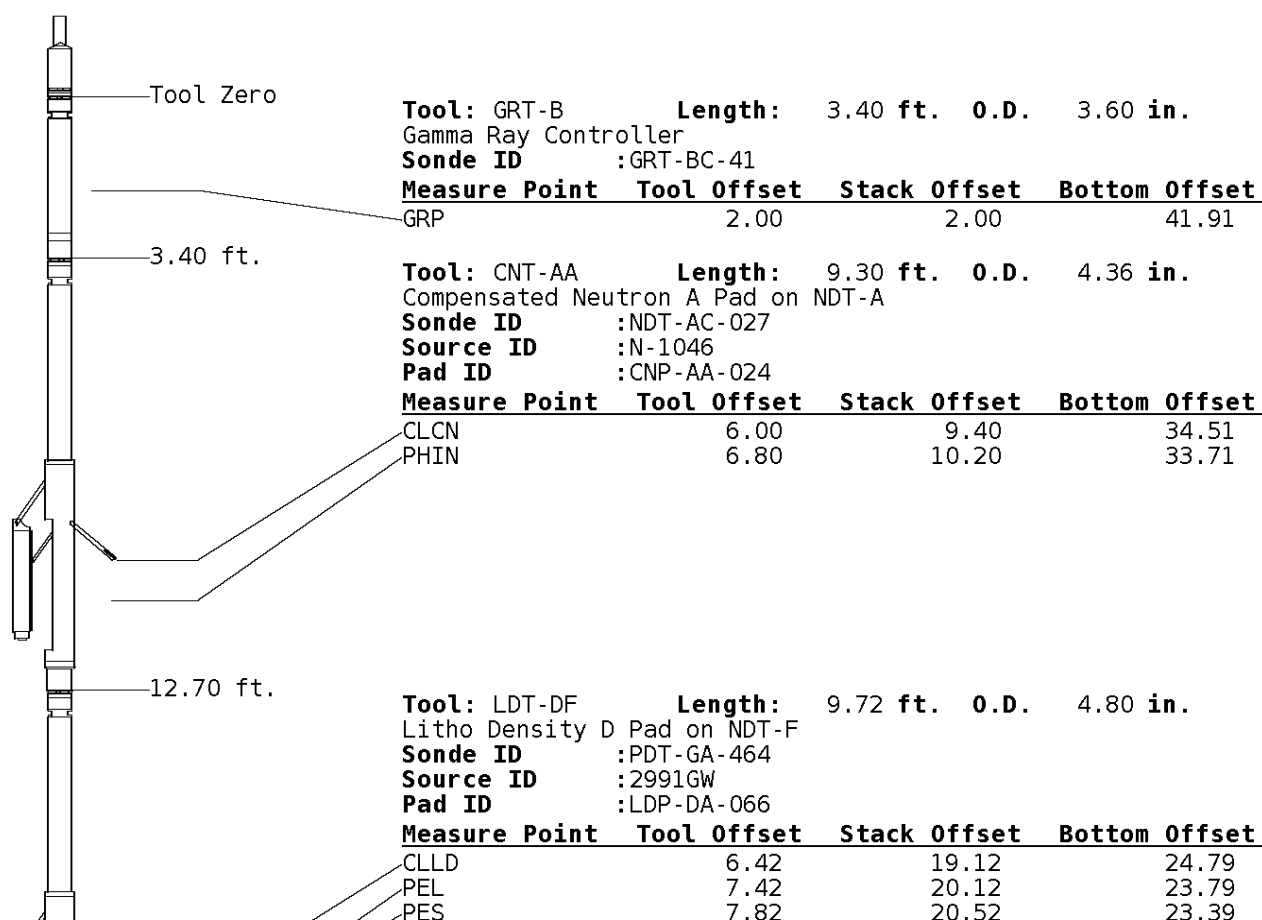
ALL PRESENTATIONS AS PER CUSTOMER REQUEST.
 GRT, CNT, LDT, AND PIT RUN IN COMBINATION.
 CALIPERS ORIENTED ON X-Y AXIS.
 2.71 G/CC USED TO CALCULATED POROSITY.
 ANNULAR HOLE VOLUME CALCULATED UISING 4.50" PRODUCTION CASING.

GRT: GRP.
 CNT: PHIN, CLCNIN.
 LDT: PORL, LCORN, PECLN, LDENN, PORLLS, CLLDIN.
 PIT: ILD, ILM, SPU, SFLAEC.

OPERATORS:
 T. HOBBS
 J. THOMAS

Tool String Schematic

Total Tool Length - 43.91 ft.
Maximum Outside diameter - 4.80 in.
Net Weight in Air - 743.00 lbs.





7.62 20.32 23.59
7.62 20.32 23.59

22.42 ft.

Tool: PIT-CA **Length:** 21.49 ft. **O.D.** 3.62 in.
Phased Dual Induction w/ RM & D
Sonde ID :PIT-CA-069

Measure Point	Tool Offset	Stack Offset	Bottom Offset
ILD	8.92	31.34	12.56
ILM	10.10	32.52	11.39
SFLU	17.49	39.91	4.00
SP	20.60	43.02	0.88

LWT 43.91 ft.

Well File: run_wun_11-36d-1_aug_25_stk

Scale: 1:600

Segment: V1.D1.S3 MN

Acquired: 2011-08/25 10:55 3.2.0-9963

Reference: 0

Processed: 2011-08/25 10:55 3.2.0-9963

TENSION
LBS

10000

0

SHALLOW FOCUSED RESISTIVITY
OHMM

0.0 500.0
0.0 50.0

SPONTANEOUS POTENTIAL
mV

→ | ← 20

DEEP INDUCTION
OHMM

0.0 500.0
0.0 50.0

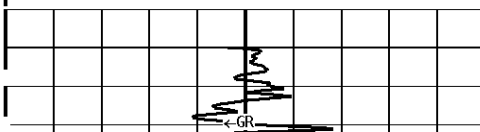
GAMMA RAY
API UNITS

200 400
0 200

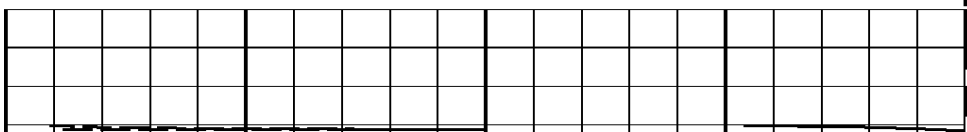
DEEP CONDUCTIVITY
MMHO

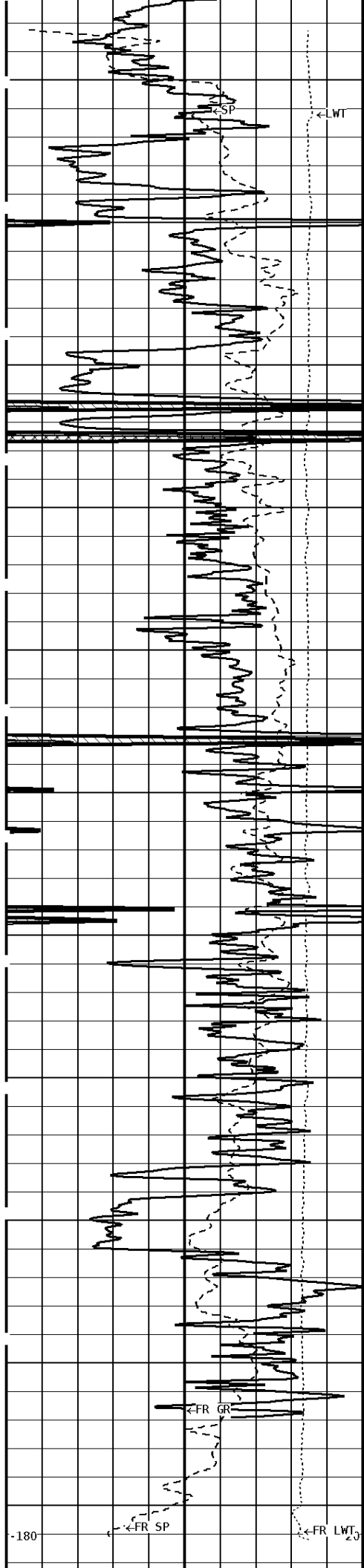
2000 1000
1000 0

1:600 SECTION

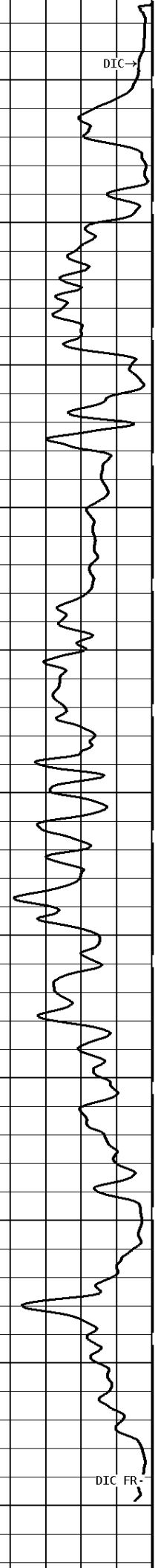
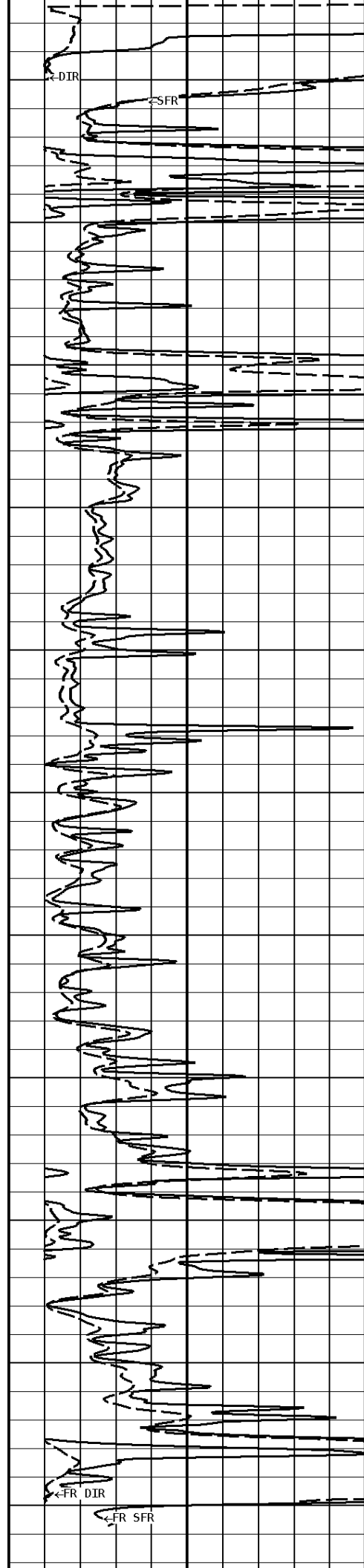


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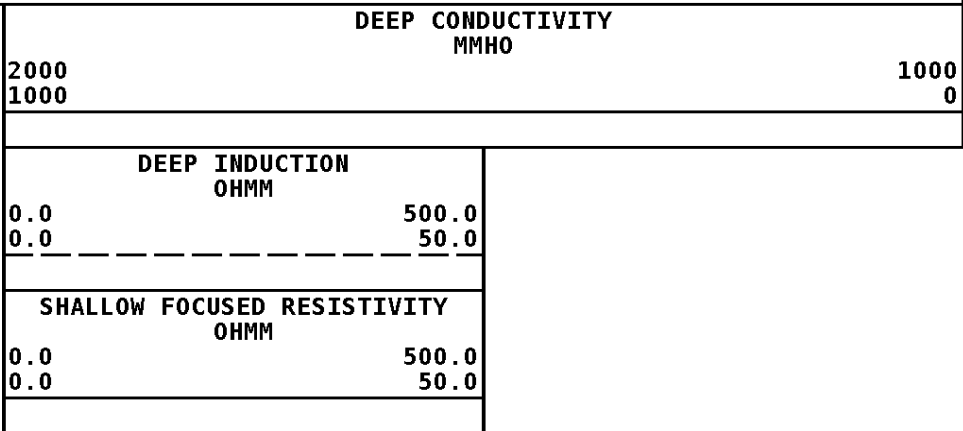




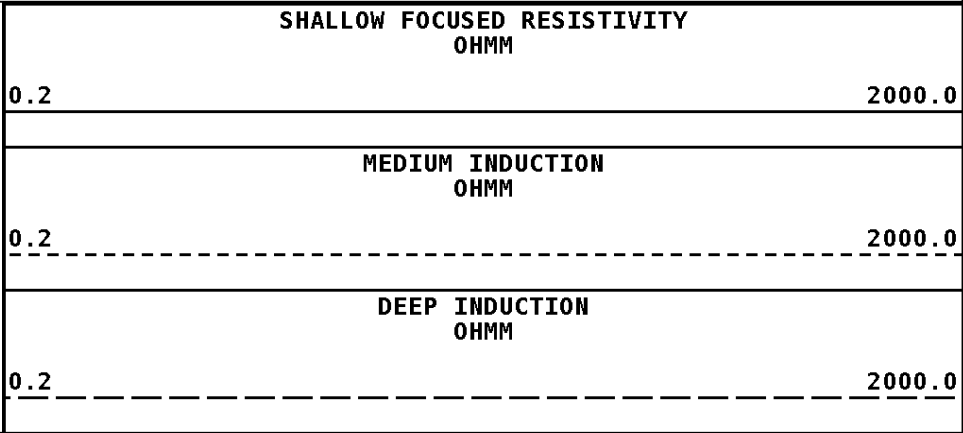
100
200
300
400
500
560



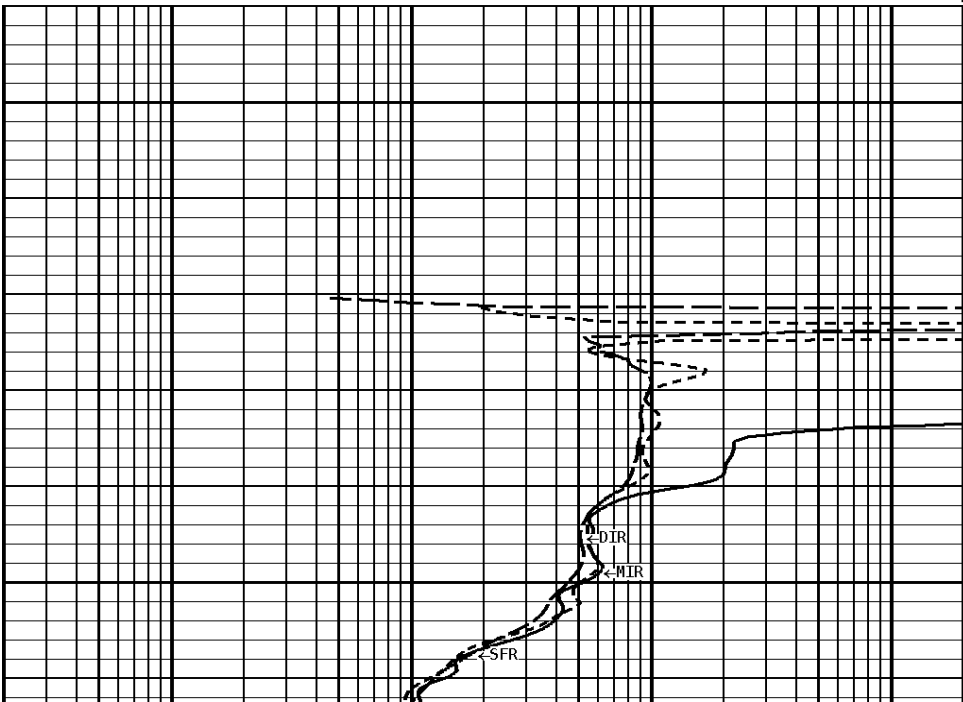
1:600 SECTION

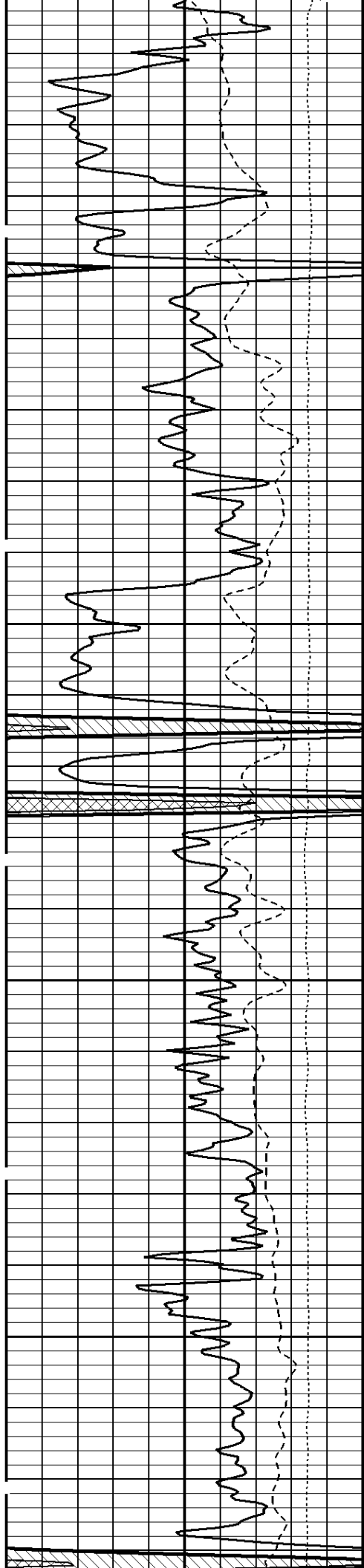


Processed: 2011-08/25 10:55 3.2.0-9963



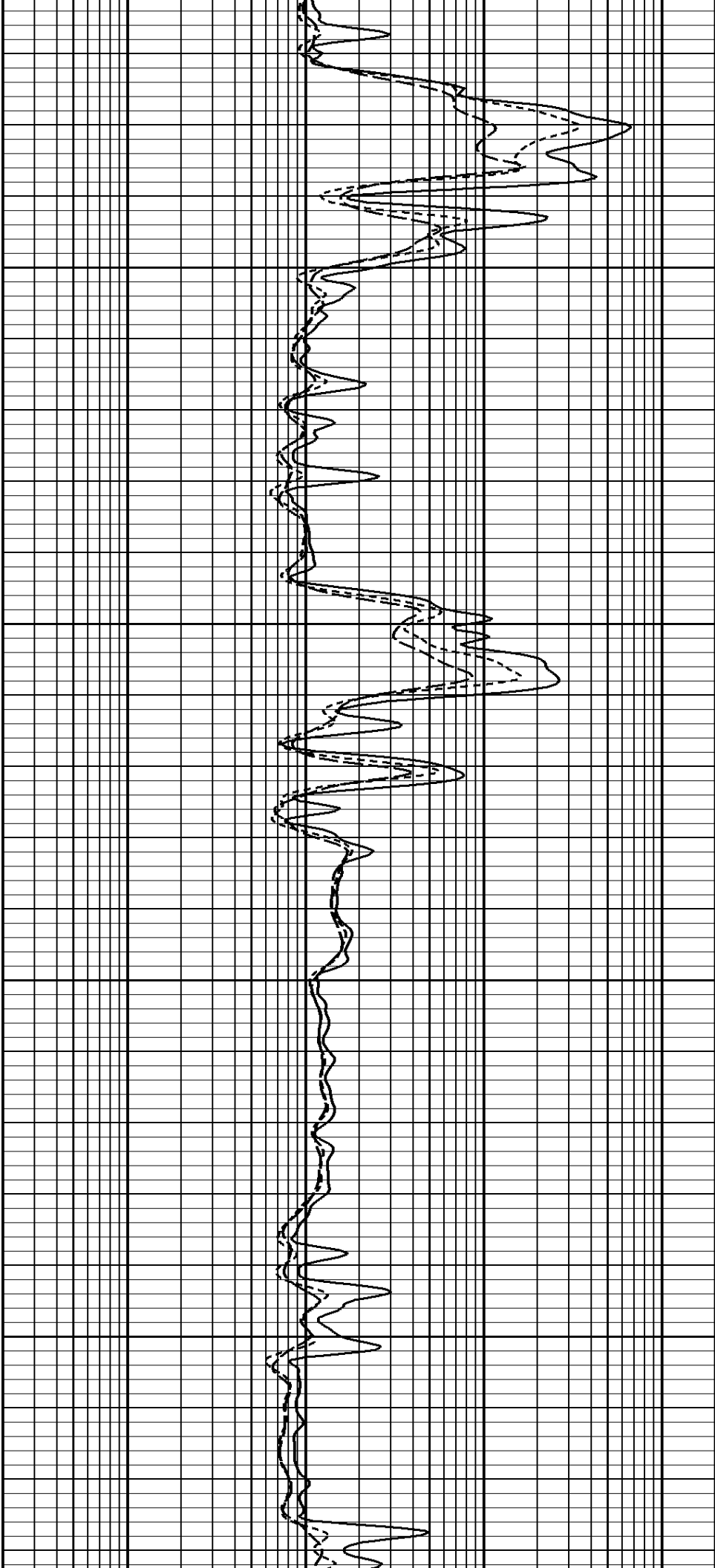
1:240 MAIN SECTION

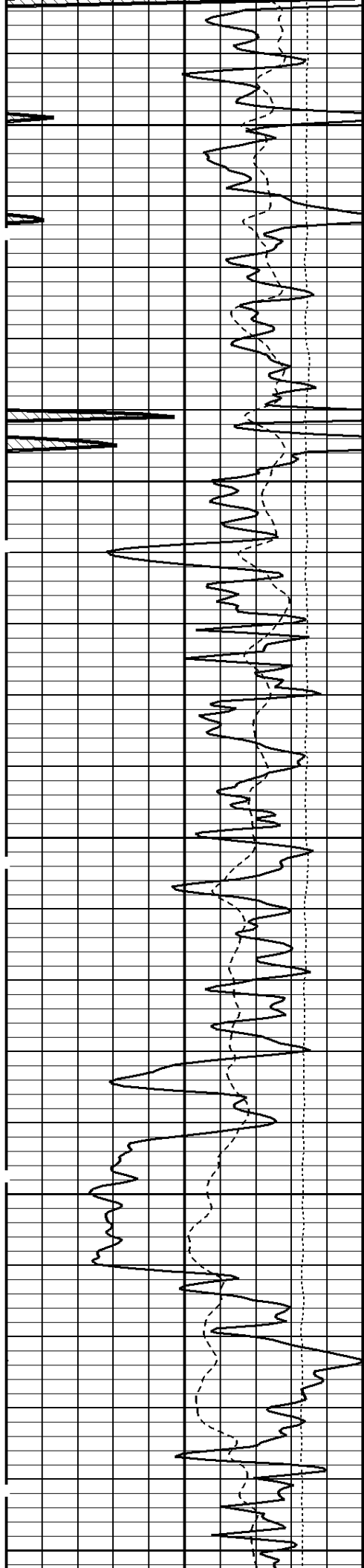




100

200

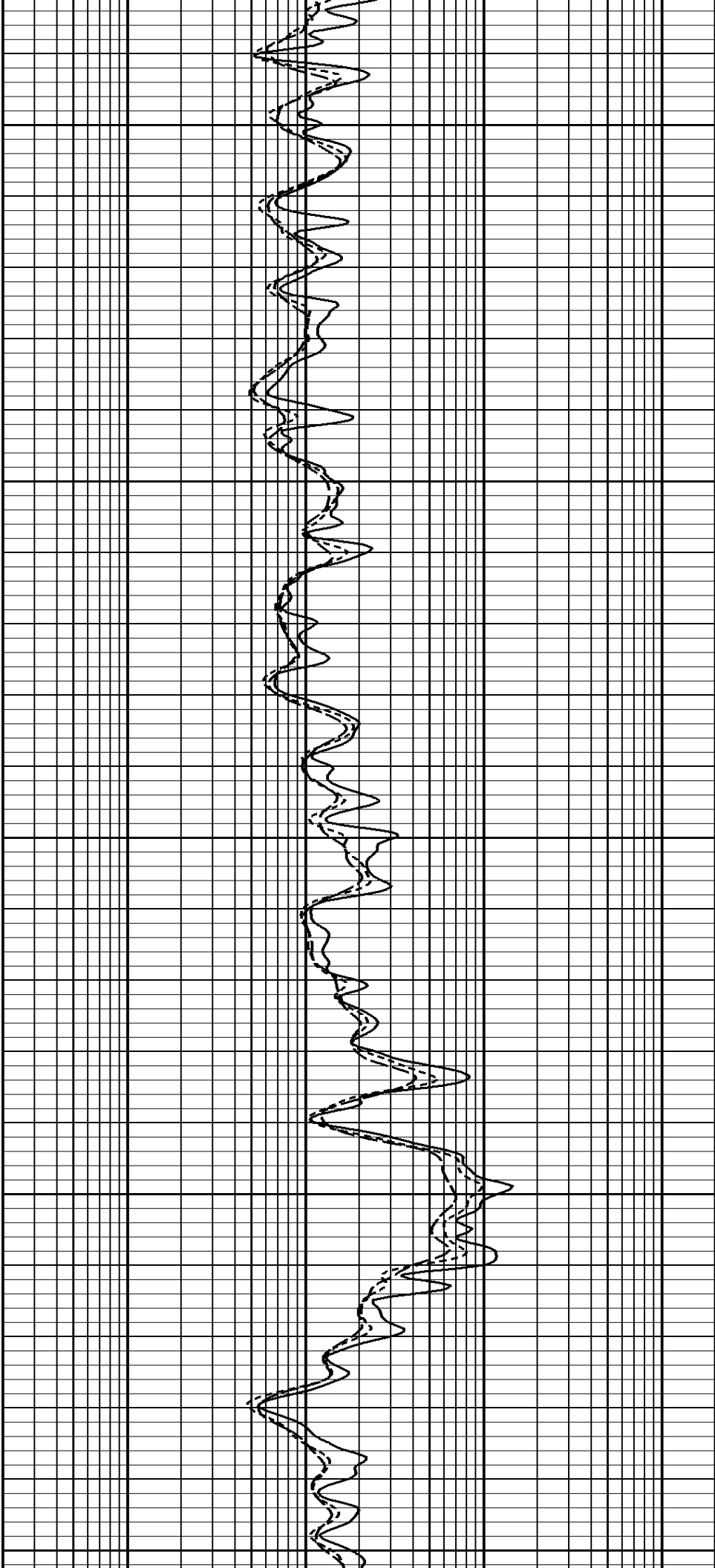


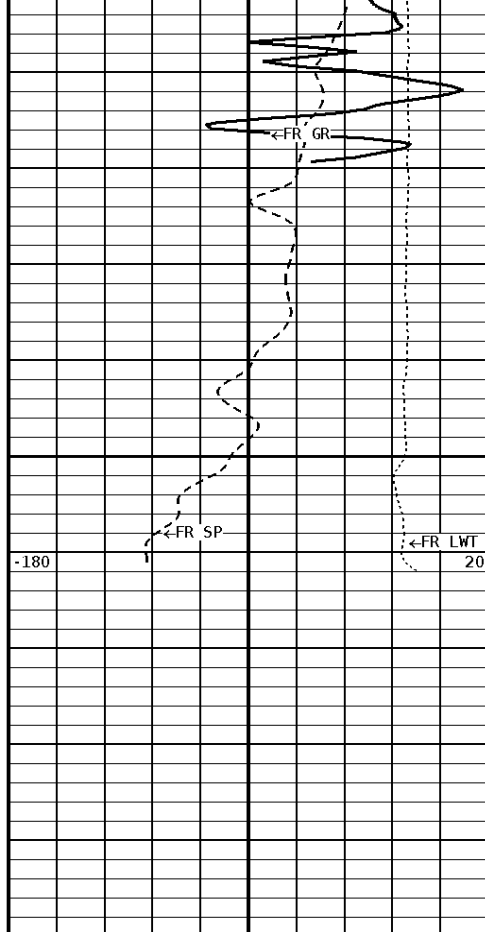


300

400

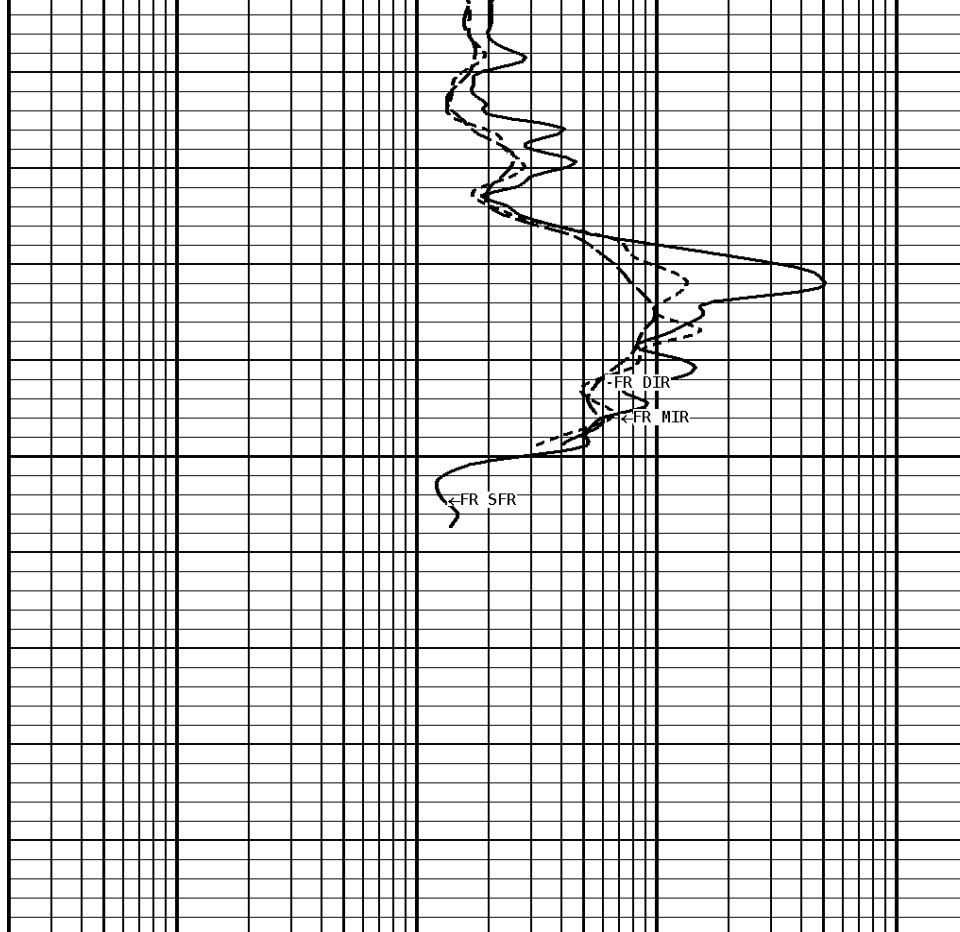
500



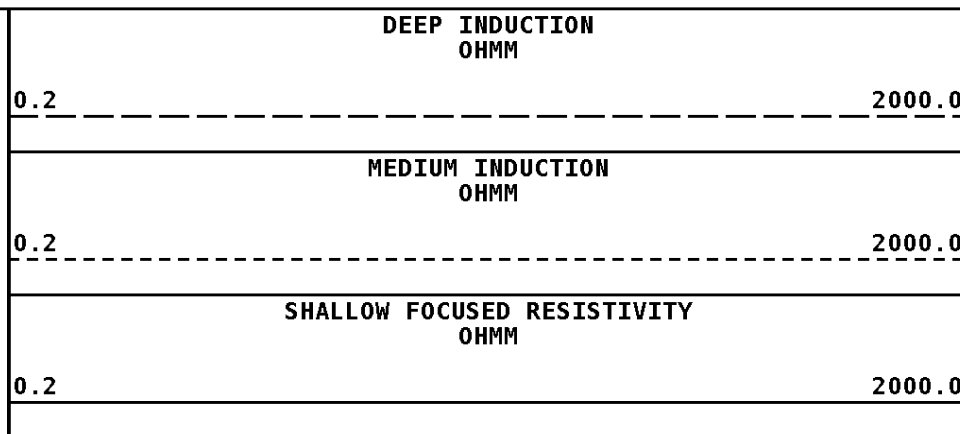
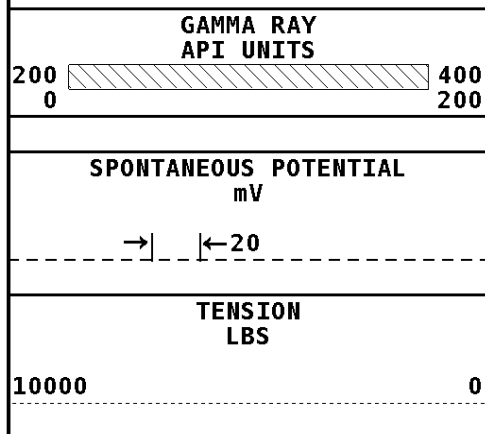


File #1.1.3

560



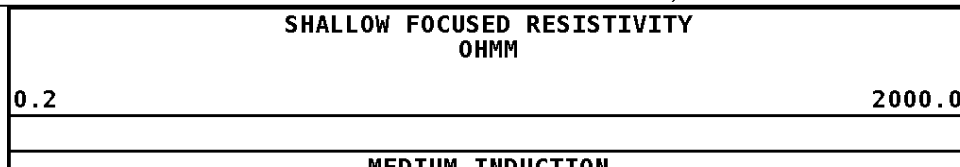
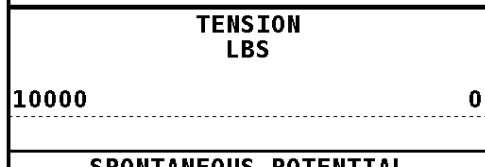
1:240 MAIN SECTION

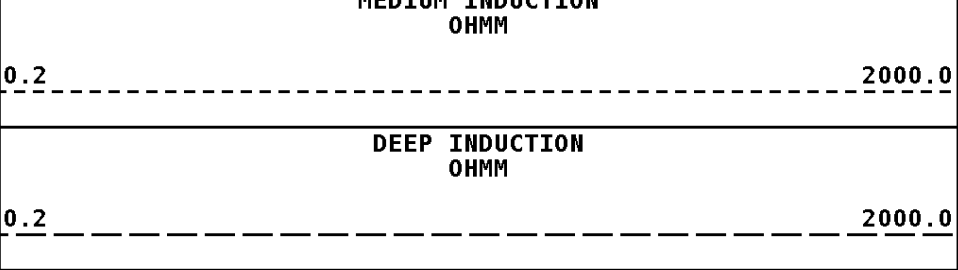
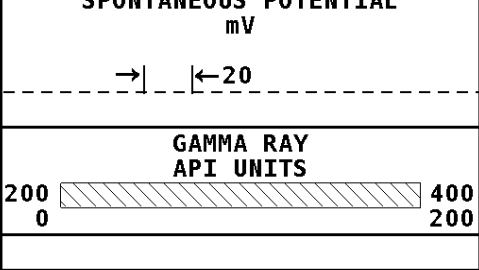


* Borehole Zone Factors *

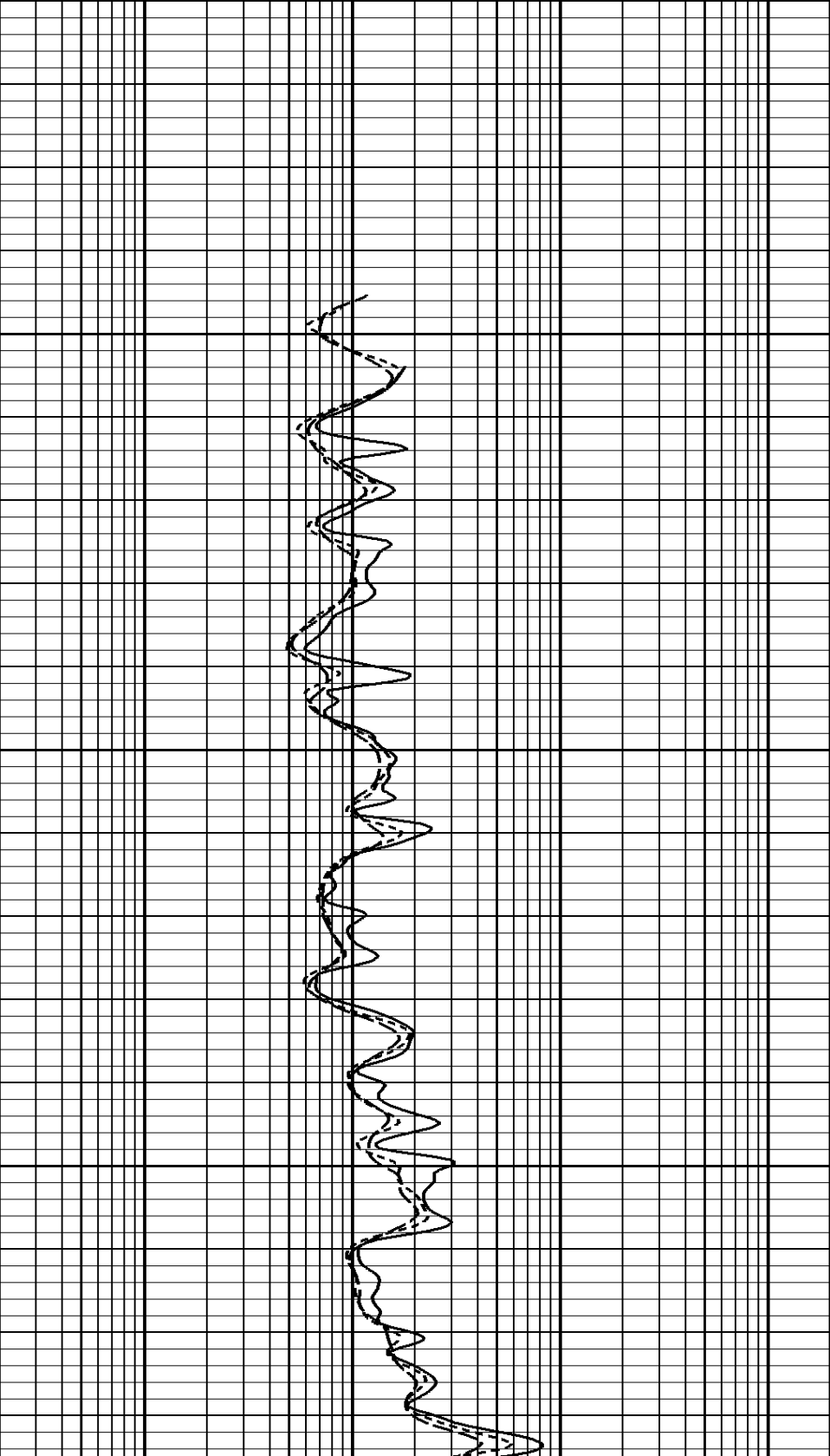
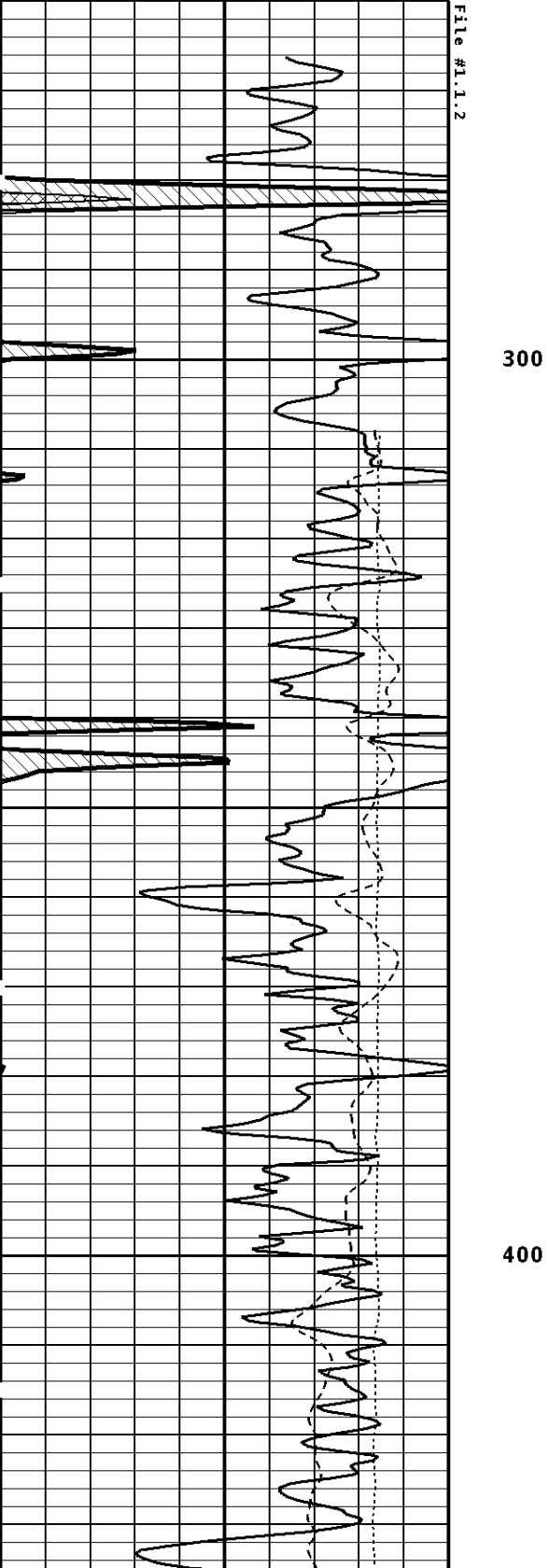
Zone 1 99999.0 to 0.0 Feet		
Drill Bit Size	6.750	in
BHT Depth	572.000	ft
Borehole Temperature	73.0	degF
Temperature Gradient	1.00	DFHF
Resistivity Of Mud	0.200	ohm/m
Resistivity Of Mud Temperature	50.00	degF

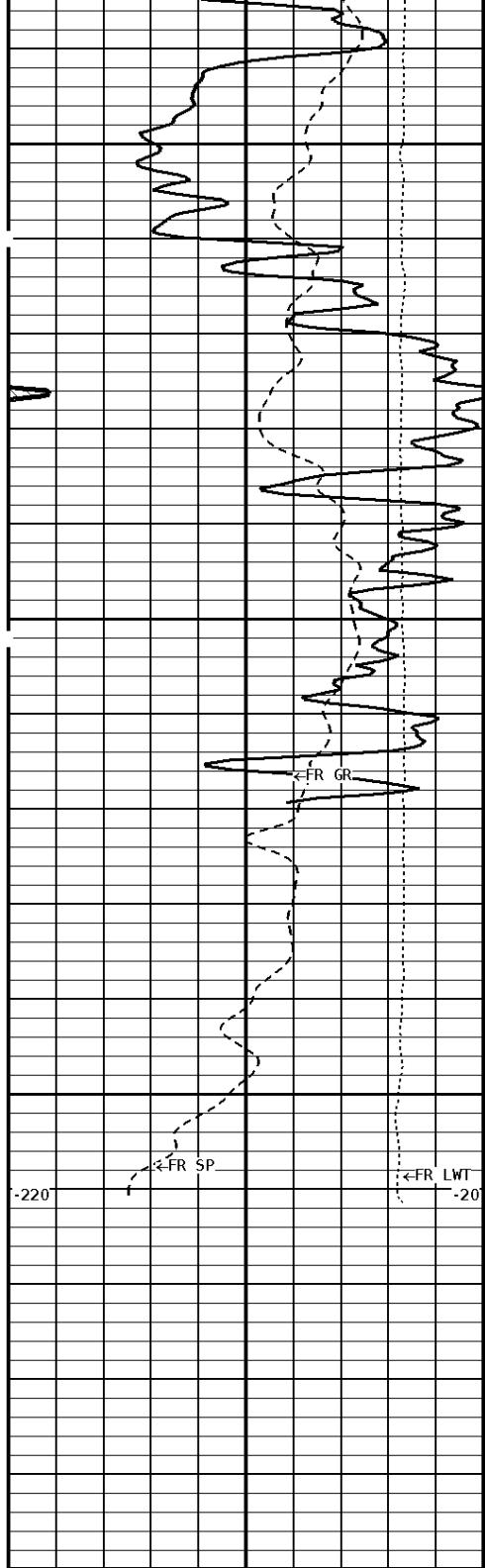
Well File: run wun 11-36d-1_aug_25_stk Scale: 1:240
 Segment: V1.D1.S2 RPT Acquired: 2011-08/25 10:41 3.2.0-9963
 Reference: 0 Processed: 2011-08/25 10:41 3.2.0-9963





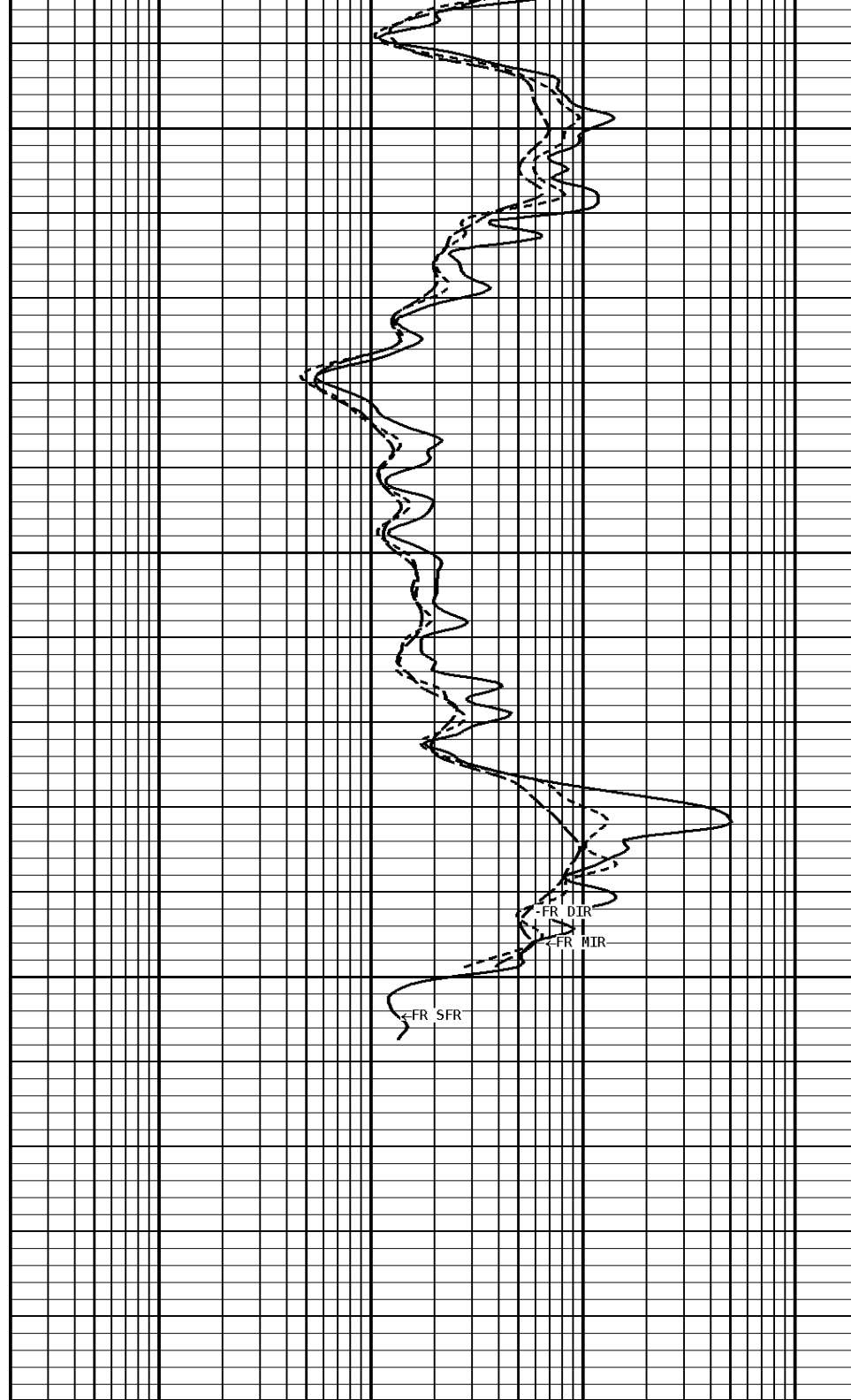
1:240 REPEAT SECTION





500

559



GAMMA RAY API UNITS 200 0 400 200		DEEP INDUCTION OHMM 0.2 2000.0
SPONTANEOUS POTENTIAL mV → ← 20		MEDIUM INDUCTION OHMM 0.2 2000.0
TENSION LBS		SHALLOW FOCUSED RESISTIVITY OHMM

10000 0

0.2 2000.0

* Borehole Zone Factors *

Zone 1 99999.0 to 0.0 Feet		
Drill Bit Size	6.750	in
BHT Depth	572.000	ft
Borehole Temperature	73.0	degF
Temperature Gradient	1.00	DFHF
Resistivity Of Mud	0.200	ohm/m
Resistivity Of Mud Temperature	50.00	degF

* Calibration Summary *

Shop Calibration GRT-B						
Performed : 29-Apr-2010			Time : 11:02			
Sensor Suite : GR-GR5			ID : GRT-BC-41			
	Measured		Units	Calibrated		Units
	Background	Jig		Jig		
GR	46	346	CPS	175		GRAPI

Shop Calibration PIT-CA					
Performed : 28-APR-2011			Time : 06:57		
Sensor Suite : P-IND-T			ID : PIT-CA-069		
Medium					
	Measured		Calibrated		
	R	X	R	X	Units
Air	130173	131162	-0.0	-0.0	MMHOS
Zero	131069	131068	42.3	-8.2	MMHOS
Reference	249132	248386	5042.3	4991.8	MMHOS
Loop	128928	218725	3679.1	3784.6	MMHOS
Sonde Error			0.1	-8.5	MMHOS
Cond			5042.3	4991.8	MMHOS
Deep					
	Measured		Calibrated		
	R	X	R	X	Units
Air	128071	132145	0.0	0.0	MMHOS
Zero	131066	131068	56.5	-22.2	MMHOS
Reference	234699	233671	2056.5	1977.8	MMHOS
Loop	127048	223014	1751.5	1791.0	MMHOS
Sonde Error			-2.6	0.1	MMHOS
Cond			2056.5	1977.8	MMHOS
Temperature					
	Measured		Calibrated		
	Low	High	Low	High	Units
	16980.0	56920.0	70.0	350.0	DEGF

Performed : 28-Apr-2011			Time : 12:54		
Sensor Suite : SFL			ID : PIT-CA-069		
Internal					
	Measured		Calibrated		
	Zero	Reference	Zero	Reference	Units
Im	32786.2	49071.6	0.0	7028.0	uA
Ib	32768.9	49102.0	0.0	1750.0	mA
MOM1	32796.9	56691.2	0.0	175.0	mV
Equivalent SFL				43.97	OHMM

Performed : 28-Apr-2011			Time : 12:57		
Sensor Suite : P-SP			ID : PIT-CA-069		
Internal					
	Measured		Calibrated		
	Zero	Reference	Zero	Reference	Units
	32768.3	58943.9	0.0	1000.0	mV

Well File: run_wun_11-36d-1_aug_25_stk Scale: 1:600
Segment: V1.D1.53 MN Acquired: 2011-08/25 10:55 3.2.0-9963
Reference: 0 Processed: 2011-08/25 10:55 3.2.0-9963

TENSION LBS	SHALLOW FOCUSED RESISTIVITY OHMM
10000	0.0 500.0
	0.0 50.0
SPONTANEOUS POTENTIAL mV	DEEP INDUCTION OHMM

